

IN THE SPECIFICATION:

Page 1, after the title of the invention and line 4, insert the following new paragraph:

CROSS REFERENCE TO RELATED APPLICATION

This is a continuation of U.S. application Serial No. 09/897,401, filed July 3, 2001, the subject matter of which is incorporated by reference herein and copending with U.S. application Serial No. 10/347,912, filed January 22, 2003, which is a continuation-in-part of U.S. application Serial No. 09/897,401, filed July 3, 2001.

Page 6, please amend the paragraph beginning at line 20 as follows:
(where, n , m , s are positive integer).

Page 12, please amend the paragraph beginning at line 18 as follows:
(where, n , m , s are positive integer).

Page 17, please amend the paragraph beginning at line 26 as follows:

Next, a sliding durability was evaluated by sliding the magnetic disks 4, which were prepared by applying each of the samples 1-5 obtained previously by molecular weight fractionation by HPLC, on the magnetic head slider 2 under a complete contacting condition. The test was performed by sliding the magnetic disk 2 onto the magnetic head slider 2 continuously with complete contact in a condition of 150 rpm and load 11.76 mN, and the sliding durability was determined by the number of sliding until a disk crash occurred. The test was performed by 100,000 sliding at maximum, and put a target of the sliding durability for practical magnetic disk drive at least 50,000 sliding. The result of sliding durability test is indicated in FIG. 4. Here, the result was studied in comparison with the sample 15, which was prepared by applying perfluoropolyether having a molecular weight of 850 obtained by molecular

weight fractionation of the same perfluoropolyether as the one used in the embodiment 1 by HPLC onto the magnetic disk 4 (sample 15). The sample 15 was disk-crashed at 7000 sliding, but all the other samples of the embodiment 1 indicated a sliding durability of more than 50000 sliding. From this observation, it can be concluded that the lubricant (perfluoropolyether) to be supplied desirably has a molecular weight of at least 1000, in order to endure the sufficient sliding durability. However, it must be retained that, even if the molecular weight is smaller than 1000, an advantageous effect to prevent decrease of the lubricant film thickness is not entirely denied as far as the result shown in FIG. 3 is considered and the molecular weight of the perfluoropolyether is sufficient to enable lubrication.

Page 22, please amend the paragraph beginning at lines 7, 26 and 27 as follows:

A schematic plan view and a schematic side view of the magnetic disk drive 14 are shown in FIG. 7. The magnetic disk drive 14 comprises a magnetic disk 4 of 63.5 mm (2.5 inches) in diameter, housing 10, spindle motor 9, actuator 12, magnetic head slider 2, suspension 15, and control circuit 13. On the surface of the magnetic disk 4, a lubricant made of perfluoropolyether having a structure expressed by the structural formula 1 and a number average molecular weight 3000 was applied with film thickness of 2 nm. The magnetic disk drive has a Load/Unload mechanism. The magnetic disk drive 14 is provided with two magnetic disks 4, and the volume of inside the device is 30.0 m-liter. Each of solutions which was prepared by dissolving each of the lubricant sample 6 (molecular weight 2000) and the lubricant having the structural formula 6 (molecular weight 4000) into a fluorine group solvent (HFE7100) by 40 wt% was impregnated into the filter 8 by 1.25 μ -liters-;

...(Structural formula 6),

(where, n, m, s are positive integer).

Page 24, please amend the paragraphs beginning at lines 21 and 26 as follows:

In the embodiment 5, the lubricant having the structure expressed by the structural formula 7 was applied onto the surface of the magnetic disk 4 with the film thickness of 2nm;

...(Structural formula 7),

Page 25, please amend the paragraph at line 1 as follows:

(where, n, m, s are positive integer).

Page 30, please amend the paragraph beginning at line 25 as follows:

A schematic plan view and a schematic side view of the magnetic disk drive 17 used in the embodiment 8 are shown in FIG. 13. The magnetic disk drive 17 comprises a magnetic disk 18 of 76.2 mm (3.0 inches) in diameter, housing 10, spindle motor 9, actuator 12, magnetic head slider 2, and control circuit 13. The magnetic disk drive 17 is provided with a Load/Unload mechanism as same as the magnetic disk drive 14. The magnetic disk drive 17 is provided with five magnetic disk 18, and inner volume of the device is 120 m-liter. On the surface of the magnetic disk 18, a lubricant film made of perfluoropolyether (number average molecular weight 6000) having a structure expressed by the structural formula 1 was formed with film thickness of 2 nm. Each of solutions which was prepared by dissolving each of the lubricant sample No. 6 and the lubricant having the structure expressed by the structural formula 6 (molecular weight 4000) into a fluorine group

solvent (HFE7100) by 40 wt% was impregnated into the filter 8 by 2.5 μ -liters (contains perfluoropolyether 1.0 μ -liters)-;

Page 31, please amend the paragraphs beginning at lines 18 and 19 as follows:

...(Structural formula 6),

(where, n, m, s are positive integer).